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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/681,287	10/09/2003	Krishna Balachandran	29250-001082/US	9239
7590 12/23/2005			EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C.			LAM, DUNG LE	
P.O. Box 8910 Reston, VA 20195		ART UNIT	PAPER NUMBER	
			2687	
			DATE MAILED: 12/23/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/681,287	BALACHANDRAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Dung Lam	2687			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication.			
Status					
1) □ Responsive to communication(s) filed on  2a) □ This action is <b>FINAL</b> . 2b) ☑ This  3) □ Since this application is in condition for alloware closed in accordance with the practice under the practice of the condition of the condi	s action is non-final.  nce except for formal matters, pro				
Disposition of Claims					
4)  Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-13 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on <u>09 October 2003</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the E	e: a) $\square$ accepted or b) $\square$ objected drawing(s) be held in abeyance. Section is required if the drawing(s) is objective.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119		•			
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

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### **DETAILED ACTION**

#### Information Disclosure Statement

1. The Information Disclosure Statement submitted on 5/4/05 has been considered by the examiner (see attached PTO-1449 form).

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims **1-4** is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements. See MPEP § 2172.01. Although the preamble of claim 1 is claiming a method of triggering registration, the actual step of triggering the registration is not cited in the body of the claim.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims **1-13** are rejected under 35 U.S.C. 102(a) as being anticipated by SWG23 BCMCS ADHOC: "Signaling Support for 1x BCMCS", 28 August 2003, pages 1-53 (simply referred to as "**3G-1x-BCMCS**").

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5. Regarding *claim 1*, **3G-1x-BCMCS** teaches a method of triggering registration of a mobile station in a network supporting broadcast multicast services (p.18, 19, 26, 28, 30) comprising:

generating a registration message based on a change in frequency, from a first frequency to a second frequency (p. 26, lines 8 – 10 & lines 35 – 39, p. 28 lines 16-22 & p. 30 lines. 27 & 31-35) that is monitored by the mobile station (section 2.6.2.9.3, p. 20 lines 4-14), if the second frequency is not known to the network based on flow identifier (BCMCS\_FLOW\_ID) information previously registered by the mobile station with the network (p. 19 lines 21-29; p. 26 lines 8 – 10 & lines 35 - 39).

- 6. Regarding *claim* 5, 3G-1x-BCMCS teaches a method of paging a mobile station comprising paging a mobile station on a given frequency based on a registration message received from the mobile station indicating the mobile station's presence on that given frequency (p. 20 lines 4-9).
- 7. Regarding *claim 10*, 3G-1x-BCMCS teaches a method of determining a frequency of broadcast multicast content being monitored by a mobile station at a network (p. 20 lines 8-9), comprising: generating, at the mobile station, a registration message based on a change in frequency monitored by the mobile station that is not known to the network based on flow identifier information previously registered by the mobile station with the network (p. 20 lines 4-8); and determining an updated frequency being monitored by the mobile station from the generated registration message (p. 20 lines 8-9).

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8. Regarding *claims* 2, 7, and 11, 3G-1x-BCMCS teaches a method wherein the flow identifier information is a broadcast-multicast service flow ID (p. 3 line 7) that the mobile station had inherently previously registered with the network (p. 26, lines 8 – 10 & lines 35 - 39).

- 9. Regarding *claims 3 and 8*, **3G-1x-BCMCS** teaches that the first or second frequency monitored by the mobile station is a frequency of broadcast multicast content being received by the mobile station (p. 19 lines 21-29).
- 10. Regarding *claim 4, 9 and 13, BCMCS* teaches a method, wherein generating a registration message includes the mobile station:

changing from the first frequency to the second frequency (p. 19 lines 21-29);
determining whether presence of the mobile station's monitoring of the second
frequency is known to the network, based on a broadcast-multicast service flow
identifier that the mobile station previously registered with the network (p. 19 lines 5-7);

and transmitting a registration message to the network, if the second frequency does not correspond to a known frequency based on the broadcast-multicast service flow identifier (p. 19 lines 21-29).

11. Regarding *claim* 6, 3G-1x-BCMCS teaches a method of claim 5, wherein said registration message is generated based on a change in frequency, from a first frequency to a second frequency, that is monitored by the mobile station, if the second frequency is not known to the network based on flow identifier information previously registered by the mobile station with the network (see claim 1 above).

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12. Regarding *claim* 12, 3G-1x-BCMCS teaches a method of claim 10, wherein the frequency monitored by the mobile station is contained in the registration message (p. 28 lines 16-22).

- 13. Claims **1, 5 and 10** are rejected under 35 U.S.C. 102(a) as being anticipated by **QUALCOMM** ("1x-BCMCS Registration for Paging" 3GPP2 Adhoc, September 15 2003, pages 1-6)
- 14. Regarding *claim* 1, Qualcomm teaches a method of triggering registration of a mobile station in a network supporting broadcast multicast services comprising (page 1-6) generating a registration message based on a change in frequency (item 2a-b p. 3; from a first frequency to a second frequency (item 2a-b, p.4), that is monitored by the mobile station (item 2a p.4), if the second frequency is not known to the network based on flow identifier (item 2 p. 4) information previously registered by the mobile station with the network.
- 15. Regarding *claim 5*, Qualcomm teaches a method of paging a mobile station comprising: paging a mobile station on a given frequency based on a registration message received from the mobile station indicating the mobile station's presence on that given frequency (p. 4 item 4, p. 2 item 2).
- 16. Regarding *claim 10*, Qualcomm teaches a method of determining a frequency of broadcast multicast content being monitored by a mobile station at a network (p. 4, item 4), comprising: generating, at the mobile station (item 2a p.4), a registration message

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based on a change in frequency monitored by the mobile station that is not known to the network based on flow identifier information previously registered by the mobile station with the network; and determining an updated frequency being monitored by the mobile station from the generated registration message (item 2a p.4).

# Claim Rejections - 35 USC § 102

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 17. Claims **1, 5 and 10** are rejected under 35 U.S.C. 102(e) as being anticipated by **Sinnaraja** (US Pub No. 2003/0114177).
- 18. Regarding *claim* 1, Sinnaraja teaches a method of triggering registration of a mobile station in a network supporting broadcast multicast services, comprising generating a registration message based on a change in frequency, from a first frequency to a second frequency, that is monitored by the mobile station, if the second frequency is not known to the network based on flow identifier information previously registered by the mobile station with the network (para. 62-63, 82).
- 19. Regarding *claim 5*, **Sinnaraja** teaches a method of paging a mobile station comprising paging a mobile station on a given frequency based on a registration message received from the mobile station indicating the mobile station's presence on that given frequency (para. 59, 79 and 81).

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20. Regarding *claim 10*, Sinnaraja teaches a method of determining a frequency of broadcast multicast content being monitored by a mobile station at a network, comprising: generating, at the mobile station, a registration message based on a change in frequency monitored by the mobile station that is not known to the network based on flow identifier information previously registered by the mobile station with the network (para. 62 and 63); and determining an updated frequency being monitored by the mobile station from the generated registration message (para. 59).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Lam whose telephone number is (571) 272-6497. The examiner can normally be reached on M - F 9 - 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571) 272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dung Lam

12/6/2005

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